

**Amendments to the Claims:**

The following listing of claims replaces all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A homogeneous, boron-doped alkaline earth peroxide having a boron content of 0.5 to 5 wt.% and a peroxide content of about 75 wt.% or more, calculated based on the active oxygen content, wherein the alkaline earth peroxide is a mixed calcium/magnesium peroxide comprising calcium peroxide and magnesium peroxide that are homogeneously dispersed in each other on a molecular level, and the boron is homogeneously distributed within the mixed calcium/magnesium peroxide on a molecular level.

2-3. (Cancelled)

4. (Previously Presented) A process for producing a homogeneous, boron-doped alkaline earth peroxide according to claim 1, said process comprising:

reacting an aqueous solution or suspension containing alkaline earth hydroxide and hydrogen peroxide, with

- sodium metaborate solution and aqueous hydrogen peroxide solution, or
- sodium metaborate solution, or
- boric acid, and

evaporating water to obtain a solid and drying the solid to obtain the homogeneous, boron-doped alkaline earth peroxide product.

5. (Previously Presented) A process for producing a homogeneous, boron-doped alkaline earth peroxide according to claim 1, said process comprising:

reacting an aqueous solution or suspension of calcium hydroxide and sodium metaborate solution with an aqueous hydrogen peroxide solution, and

evaporating water to obtain a solid and drying the solid to obtain the homogeneous, boron-doped alkaline earth peroxide product.

6. (Previously Presented) A process for producing a homogeneous, boron-doped alkaline earth peroxide according to claim 1, said process comprising:

reacting a calcium peroxide suspension with sodium metaborate solution and optionally with an aqueous hydrogen peroxide solution or with boric acid, and

drying the resulting reaction mixture to obtain a homogeneous, boron-doped calcium peroxide as a solid product.

7. (Previously Presented) A process for producing a homogeneous, boron-doped alkaline earth peroxide according to claim 1, said process comprising:

reacting an aqueous solution or suspension of a homogeneous, alkaline earth mixed peroxide with

- sodium metaborate solution and aqueous hydrogen peroxide solution, or
- sodium metaborate solution, or
- boric acid, and

evaporating water to obtain a solid and drying the solid to obtain the homogeneous, boron-doped alkaline earth peroxide product.

8. (Currently Amended) A method of treating agricultural seed, said method comprising applying to said seed a treatment composition comprising a homogeneous, boron-doped alkaline earth peroxide, wherein the alkaline earth peroxide is a mixed calcium/magnesium peroxide comprising calcium peroxide and magnesium peroxide that are homogeneously dispersed in each other on a molecular level, and the boron is homogeneously distributed within the mixed calcium/magnesium peroxide on a molecular level.

9. (Previously Presented) A method according to claim 8, wherein said treatment composition comprises an oxygenating agent.

10. (Previously Presented) A method according to claim 8, wherein said treatment composition is a seed pilling composition.

11. (Previously Presented) A method according to claim 8, wherein said seed is sugar beet seed.